NOVEMBER/DECEMBER 2023

FCS21 — C++ AND DATA STRUCTURES

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is an object?
2. List out the application of OOPs.
3. Define virtual function.
4. What is template?
5. Define ADI.
6. What is circular inked list?
7. Define Trees.
8. What is Breadth first search?
9. Define Bubble sort.
10. What is collision?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss on destructor.

Or

(b) Elaborate the classes and object.

12. (a) Write short note on type conversions.

Or

(b) Describe the function template with example.

13. (a) Explain the various level specification of stack.

Or

(b) Summaries the infix to postfix conversion.

14. (a) Exemplify the writing recursive functions.

Or

(b) Discuss on Depth first search with neat diagram.

15. (a) Write short note on Merge sort.

Or

(b) How to determine the location of element using hash function?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the basic concept of object oriented programming.

17. Expound the working with files.

18. Discuss on ADT Queue.

19. Briefly describe about the tree traversal.

20. Elaborate the various sort with suitable example.

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